

## STA-10-06-F3

### D-Band Fixed Attenuator, 10 dB, Insertion Lengths 1.60"

**STA-10-06-F3** is a 10 dB fixed attenuator that is used in millimeterwave systems and operates from 110 to 170 GHz. The attenuator has a fixed attenuation value of 10 dB at the center frequency, 140 GHz. While the attenuator is designed and fabricated for full waveguide band applications, the attenuation value of this model does show a minor slope within the band due to its distinct mechanical configuration. Various attenuation values are available under different model numbers.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		170 GHz
Attenuation Range @ 140 GHz		10 dB	
Return Loss		16 dB	
Power Handling			300 mW
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

Item	Specification
RF Ports	WR-06 Waveguide with UG-387/U-M Flange
Setting Type	Fixed
Insertion Length	1.60"
Finish	Gold Plated
Weight	0.9 Oz
Outline	TA-FD-L1

### ECCN

EAR99

### FEATURES

- Full Band Coverage
- Low Cost
- Accurate Attenuation Value at Center Frequency

### APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

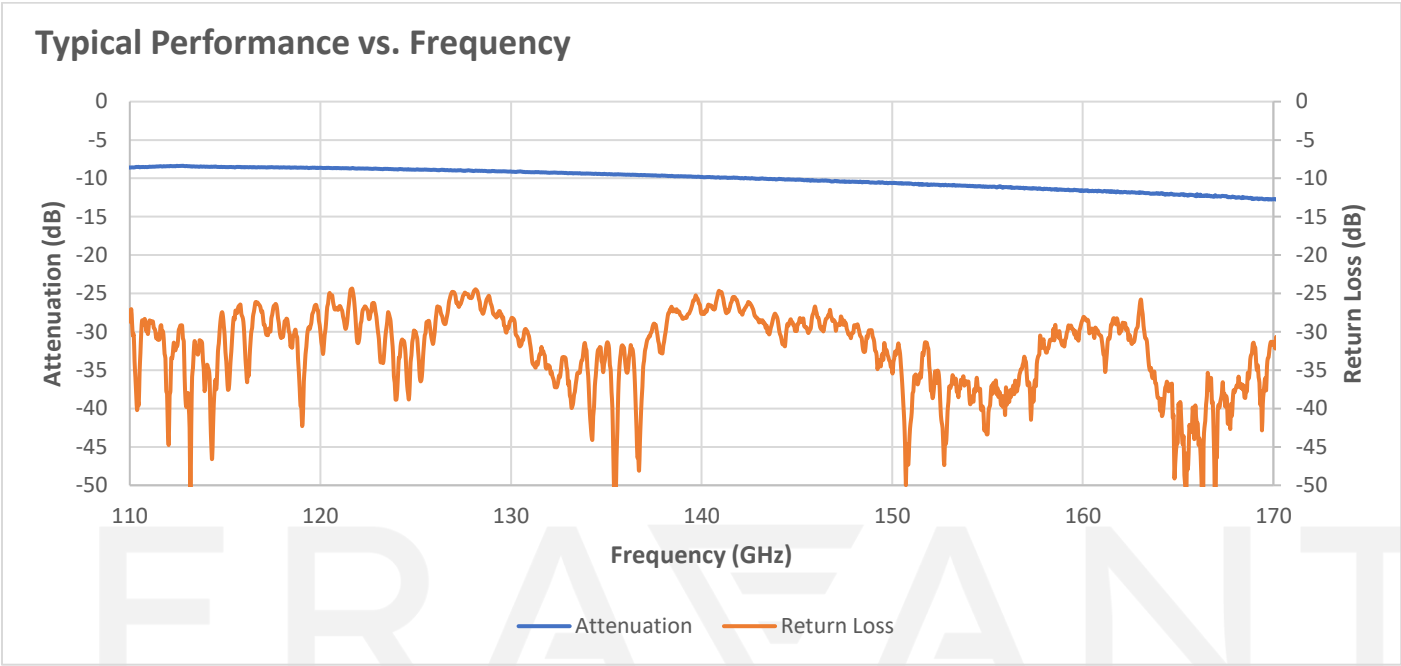
### SUPPLEMENTAL DETAILS



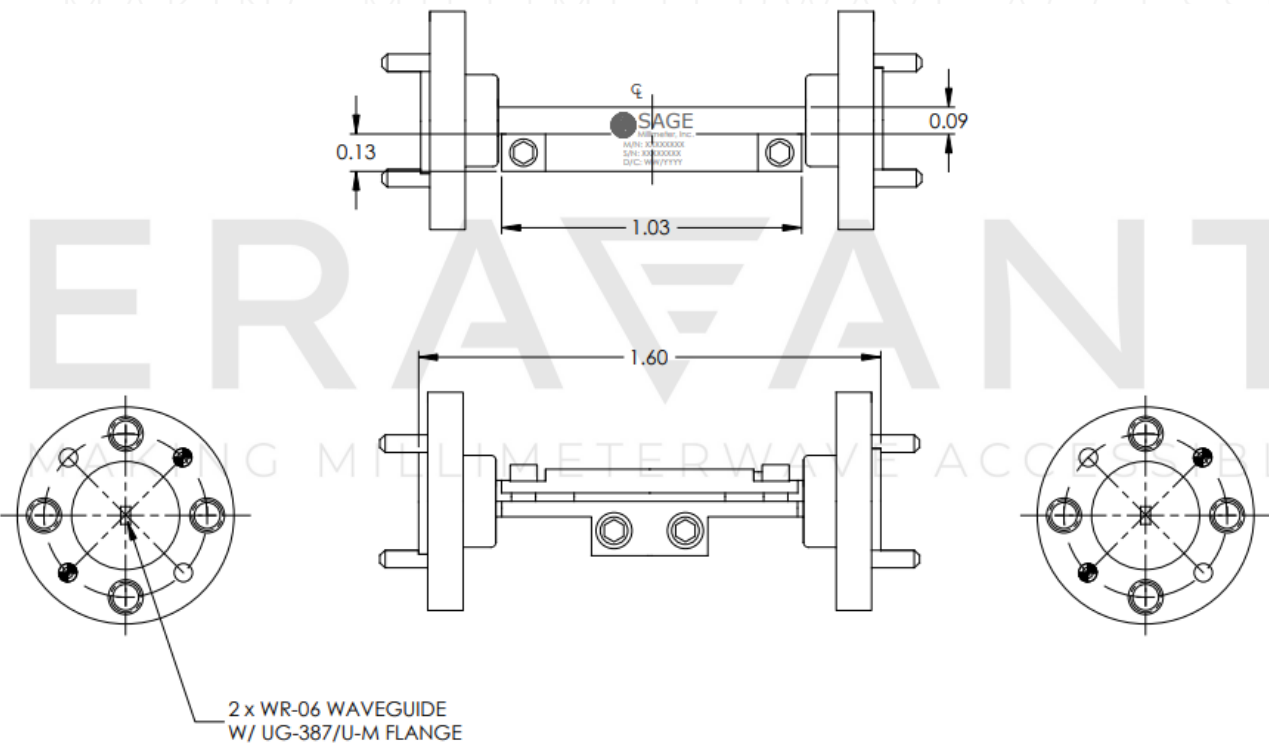
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Typical Performance vs. Frequency



**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**NOTE:**

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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